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**Textile floor coverings — Methods for  
determination of mass**

*Revêtements de sols textiles — Méthodes de détermination de la masse*



## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8543 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 12, *Textile floor coverings*.

This second edition cancels and replaces the first edition (ISO 8543:1986) of which it is a minor revision. See particularly 8.1 and 9.1 which have been augmented.

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# Textile floor coverings — Methods for determination of mass

## 1 Scope

This International Standard specifies methods for the determination of the total mass per unit area, total pile mass per unit area, and mass of pile per unit area above the substrate, and for the calculation of measured surface pile density and measured pile fibre volume ratio, of textile floor coverings.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 139:1973, *Textiles — Standard atmospheres for conditioning and testing*.

ISO 1765:1986, *Machine-made textile floor coverings — Determination of thickness*.

ISO 1766:1986, *Carpets — Determination of thickness of pile above the substrate*.

ISO 1957:1986, *Machine-made textile floor coverings — Sampling and cutting specimens for physical tests*.

## 3 Definitions

For the purpose of this International Standard, the following definitions apply.

**3.1 constant mass:** The mass attained when successive weighings at hourly intervals over a period of 3 h do not vary by more than 1 %.

**3.2 total pile mass per unit area:** The mass of the pile yarn in a unit area, including that forming the base of the tufts or held in the substrate but excluding any backing compound adhering to the pile yarn, determined in equilibrium with the standard atmosphere for conditioning and testing described in clause 4.

**3.3 measured surface pile density:** The ratio of mass to volume of the pile above the substrate measured under a pressure of 2,0 kPa<sup>1)</sup>.

**3.4 measured pile fibre volume ratio:** The proportion of the volume of the pile actually occupied by fibre.

1) 1 kPa = 10<sup>3</sup> N/m<sup>2</sup>